

JUN 12 2000  
 PATENT & TRADEMARK OFFICE

Form PTO-1449 (modified)

Attor. Docket No.

Serial No.

~~USPC 013/PAR~~

~~08/479,722~~ 09/592,685

List of Patents and Publications for Applicant

Applicant

Jeffrey Bonadio and Wushan Yin

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Filing Date:

June 7, 1995

Group:

1804 1647

U.S. Patent Documents

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Foreign Patent Documents

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## U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.

## Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No

## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
AR	C93	Ando, <i>et al.</i> , "Localization of Transforming Growth Factor - $\beta$ and Latent Transforming Growth Factor- $\beta$ Binding Protein in Rat Kidney," <i>Kidney International</i> 47:733-739, 1995.
	C94	Chaudhry, <i>et al.</i> , "Expression of Transforming Growth Factors Beta 1, Beta 2, Beta 3 in Neuroendocrine Tumors of the Digestive System," <i>Anticancer Res</i> 14(5B):2085-91, 1994 (Abstract)
	C95	Colosetti, <i>et al.</i> , "Axotomy of Rat Facial Nerve Induces TGF- $\beta$ and Latent TGF- $\beta$ Binding Protein," <i>Brain Research Bulletin</i> 37(6):561-67, 1995.
	C96	Dallas, <i>et al.</i> , "Characterization and Autoregulation of Latent Transforming Growth Factor $\beta$ (TGF $\beta$ ) Complexes in Osteoblast-like Cell Lines," <i>The Journal of Biological Chemistry</i> , 269(9):6815-22, 1994.
	C97	Eklöv, <i>et al.</i> , "Lack of the Latent Transforming Growth Factor $\beta$ Binding Protein in Malignant, but not Benign Prostatic Tissue," <i>Cancer Research</i> , 53:3193-97, 1993.
	C98	Flaumenhaft, "Extracellular Regulation of Basic Fibroblast Growth Factor and Transforming Growth Factor-Beta Activity," <i>Dissertation Abstracts International</i> , 53(3):1340B, 1992. (abstract)
AR	C99	Kogawa <i>et al.</i> , "[TGF-beta and Platelet]", <i>Rinsho Ketsueki</i> , 35(4):370-5, 1994 (abstract)

EXAMINER: *James R. Rous*

DATE CONSIDERED:

8/11/92

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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UMIC:013/PAR

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## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
AA	C100	Koli, "Growth-Inhibitory Effects of Transforming Growth Factor-beta and 1,25-dihydroxyvitamin D(3) on Cultured Epithelial Cells: Relationships to Plasminogen Activation," <i>Diss. Abstr. Int.</i> , 56(3):629, 1995.
	C101	Li, <i>et al.</i> , "Mapping of Human and Murine Genes for Latent TGF- $\beta$ Binding Protein-2 (LTBP2)," <i>Mammalian Genome</i> 6:42-45, 1995.
	C102	Maeda, <i>et al.</i> , "Local Production and Localization of Transforming Growth Factor-beta in Tuberculous Pleurisy," <i>Clin. Exp. Immunol.</i> , 92:32-38, 1993.
	C103	Miyazono, <i>et al.</i> , "Structure and Function of Latent Forms of Transforming Growth Factor-beta (Meeting abstract)," <i>Seventh International Conference of the International Society of Differentiation, Cellular Programmes for Growth Differentiation and Neoplasia</i> , (1992):58, 1992.
	C104	Mizoi, <i>et al.</i> , "Immunohistochemical Identification of Transforming Growth Factor-beta and Its Binding Protein in Human Gastrointestinal Carcinoma," <i>Tojoku J. Exp. Med.</i> , 168(2):271-3, 1992. (abstract)
	C105	Mizoi, <i>et al.</i> , "Immunoelectron Microscopic Localization of Transforming Growth Factor $\alpha$ and Latent Transforming Growth Factor $\beta$ Binding Protein in Human Gastrointestinal Carcinomas: Qualitative Difference Between Cancer Cells and Stromal Cells," <i>Cancer Research</i> , 53:183-190, 1993.
	C106	Rifkin, "TGF- $\beta$ Formation: Mechanisms and Consequences," <i>J. Cellular Biochem. Suppl.</i> 19B, 3, 1995.
	C107	Taipale, <i>et al.</i> , "Control of TGF-beta 1, Its Latent Form Binding Protein (LTBP) and Type II Receptor Expression During Differentiation of Human Myeloid Leukemia Cells Lines (Meeting Abstract)," <i>EACR-12: 12th Biennial Meeting of the European Association for Cancer Research</i> , 1993.
	C108	Tamaki <i>et al.</i> , "TGF- $\beta$ 1 in Glomerulosclerosis and Interstitial Fibrosis of Adriamycin Nephropathy," <i>Kidney International</i> , 45:525-36, 1994.
AA	C109	Van Laethem, <i>et al.</i> , "Localization of Transforming Growth Factor $\beta$ 1 and Its Latent Binding Protein in Human Chronic Pancreatitis," <i>Gastroenterology</i> 108:1873-81, 1995.

EXAMINER: *Donald Roman*

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6/11/2

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INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

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Atty. Docket No.  
UMIC:002/PARSerial No.  
08/479,722

List of Patents and Publications for Applicant's

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1804U.S. Patent Documents  
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See Page 1Other Art  
See Page 1-3

## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
AR	C110	Vilafranca, <i>et al.</i> , "Muscle Fibre Expression of Transforming Growth Factor-beta 1 and Latent Transforming Growth Factor-beta Binding Protein in Canine Masticatory Muscle Myositis," <i>J. Comp. Pathol.</i> 112(3):299-306, 1995.
	C111	Waltenberger, <i>et al.</i> , "Involvement of Transforming Growth Factor- $\beta$ in the Formation of Fibrotic Lesions in Carcinoid Heart Disease," <i>American Journal of Pathology</i> , 142(1):71-8, 1993.
AR	C112	Waltenberger, <i>et al.</i> , "Induction of Transforming Growth Factor- $\beta$ during Cardiac Allograft Rejection," <i>The Journal of Immunology</i> , 151(2):1147-57, 1993.

EXAMINER:

Daniel R. Rios

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ATTY. DOCKET NO.  
UMIC:013/PARSERIAL NO.  
08/479,722APPLICANT  
Jeffrey Bonadio and Wushan YinFILING DATE  
June 7, 1995GROUP  
Unknown

## U.S. PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
AR	A1	5,270,300	12/14/93	Hunziker	514	12	
	A2	5,208,219	05/04/93	Ogawa et al.	514	12	
	A3	5,187,076	02/16/93	Wozney et al.	435	69.1	
	A4	5,171,579	12/15/92	Ron et al.	424	486	
	A5	5,168,050	12/01/92	Hammonds, Jr., et al.	435	69.1	
	A6	5,166,058	11/24/92	Wang et al.	435	69.1	
	A7	5,118,667	06/02/92	Adams et al.	514	12	
AR	A8	5,116,738	05/26/92	Wang et al.	435	69.1	

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EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
AR	B1	WO 90/11092	10-04-90	PCT	—	—	

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AR	C1	Alper, "Boning Up: Newly Isolated Proteins Heal Bad Breaks", <i>Science</i> , 263:324-325, 1994					
	C2	Bandara, G., et al., "Gene Transfer to Synoviocytes: Prospects for Gene Treatment of Arthritis", <i>DNA and Cell Biology</i> , 11(3):227-231, 1992					
	C3	Beck, L. Steven, et al., "Rapid Publication TGF- $\beta$ Induces Bone Closure of Skull Defects", <i>J. Bone Miner. Res.</i> , 6(11):1257-1265, 1991					
	C4	Boden, S.D., et al., "Estrogen Receptor mRNA Expression in Callus During Fracture Healing in the Rat", <i>Calcif Tissue Int</i> , 45:324-325, 1989					
	C5	Bonnarens and Einhorn, "Production of a Standard Closed Fracture in Laboratory Animal Bone", <i>J. Orthop. Res.</i> , 2:97-101, 1984					
	C6	Carrington, Jill L., et al., "Accumulation, Localization, and Compartmentation of Transforming Growth Factor $\beta$ During Endochondral Bone Development", <i>J. Cell Biol.</i> , 107:1969-1975, 1988					
AR	C7	Centrella, Michael et al., "Skeletal Tissue and Transforming Growth Factor $\beta$ ", <i>FASEB J.</i> , 2:3066-3073, 1988					

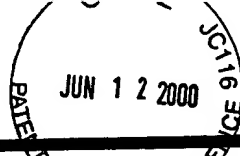
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Daniel Rove

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## Form PTO-1449 (modified)

ATTORNEY DOCKET NO.  
UMIC:015/PARSERIAL NO.  
08/479,722List of Patents and Publications  
For Applicant's Information  
Disclosure StatementAPPLICANT  
Jeffrey Bonadio and Wushan Yin

(Use several sheets if necessary)

FILING DATE  
June 7, 1995GROUP  
Unknown

## U.S. PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
AR	A9	5,108,922	04/28/92	Wang et al.	435	240.2	
	A10	5,108,753	04/28/92	Kuberasampath et al.	424	422	
	A11	5,106,748	04/21/92	Wozney et al.	435	252.3	
	A12	5,013,649	05/07/91	Wang et al.	435	69.1	
	A13	5,011,691	04/30/91	Oppermann et al.	424	423	
	A14	4,975,527	12/04/90	Koezuka et al.	530	356	
	A15	4,975,526	12/04/90	Kuberasampath et al.	530	350	
	A16	4,968,590	11/06/90	Kuberasampath et al.	530	326	
AR	A17	4,877,864	10/31/89	Wang et al.	530	324	

## FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

## OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, &amp; Date)

AR	C8	Chen, Theresa L., et al., "Bone Morphogenetic Protein-2b Stimulation of Growth and Osteogenic Phenotypes in Rat Osteoblast-like Cells: Comparison with TGF- $\beta_1$ ", <i>J. Bone Miner. Res.</i> , 6(12):1387-1393, 1991					
	C9	Cunningham, Noreen S., et al., "Osteogenin and Recombinant Bone Morphogenetic Protein 2B are Chemotactic for Human Monocytes and Stimulate Transforming Growth Factor $\beta_1$ mRNA Expression", <i>Proc. Natl. Acad. Sci. USA</i> , 89:11740-11744, 1992					
AR	C10	Gunasekaran, S, et al., "Mineralized Collagen as a Substitute for Autograft Bone that Can Deliver Bone Morphogenetic Protein", <i>The 19th Annual Meeting of the Society for Biomaterials</i> , p. 253, 1993					

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**Form PTO-1449** (modified)ATTACHED SHEET NO.  
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Unknown**U.S. PATENT DOCUMENTS**

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
PR	A18	4,795,804	01/03/89	Urist	530	350	
	A19	4,789,732	12/06/88	Urtist	530	350	
	A20	4,761,471	08/02/88	Urist	530	350	
PR	A21	4,619,989	10/38/86	Urist	530	417	

**FOREIGN PATENT DOCUMENTS**

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

**OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, & Date)**

PR	C11	Gunasekaran, S., et al., "Role of Mineralized Collagen as an Osteoconductive Biomaterial", <i>The 19th Annual Meeting of the Society for Biomaterials</i> , p. 161, 1993					
	C12	Gunasekaran, S., et al., "Mineralization of Collagen Without Nucleating Proteins", 11:30 A.M. V7.5, p. 426					
	C13	Horowitz, Mark C., et al., "Functional and Molecular Changes in Colony Stimulating Factor Secretion by Osteoblasts", <i>Connective Tissue Research</i> , 20:159-168, 1989					
	C14	Huggins, C.B., et al., "Experiments on the Theory of Osteogenesis", <i>Arch. Surg.</i> , 32(6):915-931, 1936					
	C15	Izumi, Toshihiro, et al., "Transforming Growth Factor $\beta_1$ Stimulates Type II Collagen Expression in Cultured Periosteum-Derived Cells", <i>J. Bone Miner. Res.</i> , 7(1):115-121, 1992					
	C16	Jingushi, Seiya, et al., "Genetic Expression of Extracellular Matrix Proteins Correlates with Histologic Changes During Fracture Repair", <i>J. Bone Miner. Res.</i> , 7(9):1045-1055, 1992					
PR	C17	Jingushi, S., et al., "Acidic Fibroblast Growth Factor (aFGF) Injection Stimulates Cartilage Enlargement and Inhibits Cartilage Gene Expression in Rat Fracture Healing", <i>J. Orthop. Res.</i> , 8:364-371, 1990					

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PR	A22	4,596,574	06/24/86	Urist	623	16	
	A23	4,563,489	01/07/86	Urist	524	21	
PR	A24	4,455,256	06/19/84	Urist	260	112R	

## FOREIGN PATENT DOCUMENTS

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## OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, &amp; Date)

PR	C18	Joyce, Michael E., et al., "Role of Growth Factors in Fracture Healing", <i>Clinical and Experimental Approaches to Dermal and Epidermal Repair: Normal and Chronic Wounds</i> , 391-416, 1991
	C19	Joyce, Michael E., et al., "Transforming Growth Factor- $\beta$ and the Initiation of Chondrogenesis and Osteogenesis in the Rat Femur", <i>The J. Cell Biol.</i> , 110:2195-2207, 1990
	C20	Luyten, Frank P., et al., "Purification and Partial amino Acid Sequence of Osteogenin, a Protein Initiating Bone Differentiation", <i>J. Biol Chem.</i> , 264(23):13377-13380, 1989
	C21	O'Malley, Jr. and Ledley "Somatic Gene Therapy in Otolaryngology-Head and Neck Surgery", <i>Arch Otolaryngol Head Neck Surg</i> , 119:1191-1197, 1993
	C22	Ozkaynak, Engin, et al., "OP-1 cDNA Encodes an Osteogenic Protein in the TGF- $\beta$ Family", <i>EMBO J.</i> , 9(7):2085-2093, 1990
	C23	Paralkar, Vishwas M., et al., "Identification and Characterization of Cellular Binding Proteins (Receptors) for Recombinant Human Bone Morphogenetic Protein 2B, an Initiator of Bone Differentiation Cascade", <i>Proc. Natl. Acad. Sci. USA</i> , 88:3397-3401, 1991
	C24	Roessier, Blake J., et al., "Adenoviral-mediated Gene Transfer to Rabbit Synovium In Vivo", <i>J. Clin. Invest.</i> , 92:1085-1092, 1993
PR	C25	Rosen, Vicki, et al., "Purification and Molecular Cloning of a Novel Group of BMPS and Localization of BMP mRNA in Developing Bone", <i>Connect. Tissue Res.</i> , 20:313-319, 1989

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Daniel R. Rowe

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AA	C26	Sampath, T.K., et al., "In Vitro Transformation of Mesenchymal Cells Derived From Embryonic Muscle into Cartilage in Response to Extracellular Matrix Components of Bone", <i>Proc. Natl. Acad. Sci. USA</i> , 81:3419-3423, 1984
	C27	Sampath and Reddi, "Dissociative Extraction and Reconstitution of Extracellular Matrix Components Involved in Local Bone Differentiation", <i>Proc. Natl. Acad. Sci. USA</i> , 78(12):7599-7603, 1981
	C28	Sandusky, G.E., Jr. et al., "Histologic Findings After In Vivo Placement of Small Intestine Submucosal Vascular Grafts and Saphenous Vein Grafts in the Carotid Artery in Dogs", <i>American Journal of Pathology</i> , 140(2):317-324, 1992
	C29	Shimell, Mary Jane, et al., "The Drosophila Dorsal-Ventral Patterning Gene <i>tolloid</i> is Related to Human Bone Morphogenetic Protein 1", <i>Cell</i> , 67:469-481, 1991
	C30	Srivastava, Carolyn H., et al., "Construction of a Recombinant Human Parvovirus B19: Adenoassociated Virus 2 (AAV) DNA Inverted Terminal Repeats are Functional in an AAV-B19 Hybrid Virus", <i>Proc. Natl. Acad. Sci. USA</i> , 86:8078-8082, 1989
	C31	Toriumi, Dean M., et al., "Mandibular Reconstruction With a Recombinant Bone-Inducing Factor", <i>Arch Otolaryngol Head Neck Surg</i> , 117:1101-1112, 1991
	C32	Ulmer, Jeffrey B., et al., "Heterologous Protection Against Influenza by Injection of DNA Encoding a Viral Protein", <i>Science</i> , 259:1745-1749, 1993
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AR	C34	Urist, Marshall R., "Bone: Formation by Autoinduction", <i>Science</i> , 150:893-899, 1965
	C35	Wang, Elizabeth A., et al., "Recombinant Human Bone Morphogenetic Protein Induces Bone Formation", <i>Proc. Natl. Acad. Sci. USA</i> , 87:2220-2224, 1990
	C36	Wilson, James M., et al., "Somatic Gene Transfer in the Development of an Animal Model for Primary Hyperparathyroidism", <i>Endocrinology</i> , 130(5):2947-2954, 1992
	C37	Wolff, Jon A., et al., "Direct Gene Transfer into Mouse Muscle In Vivo", <i>Science</i> , 247:1465-1468, 1990
	C38	Wozney, John M., et al., "Novel Regulators of Bone Formation: Molecular Clones and Activities", <i>Science</i> , 242:1528-1534, 1988
	C39	Yasko, Alan W., et al., "The Healing of Segmental Bone Defects, Induced by Recombinant Human Bone Morphogenetic Protein (rhBMP-2)", <i>The Journal of Bone and Joint Surgery</i> , 74-A(5):659-670, 1992
	C40	Agarwala, Neena, et al., "Specific Binding of Parathyroid Hormone to Living Osteoclasts", <i>Journal of Bone and Mineral Research</i> , 7:531-539, 1992
	C41	Bonadio et al., "Transgenic mouse model of the mild dominant form of osteogenesis imperfecta," <i>Proc. Natl. Acad. Sci. USA</i> , 87:7145-7149, 1990
AR	C42	Davidson et al., "A model system for in vivo gene transfer into the central nervous system using an adenoviral vector," <i>Nature Genetics</i> , 3:219-223, 1993

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AR	C43	Falcone et al., "Macrophage and Foam Cell Release of Matrix-bound Growth Factors," <i>The Journal of Biological Chemistry</i> , 268(15):11951-11958, 1993
	C44	Flaumenhaft et al., "Role of the Latent TGF- $\beta$ Binding Protein in the Activation of Latent TGF- $\beta$ by Co-Cultures of Endothelial and Smooth Muscle Cells," <i>The Journal of Cell Biology</i> , 120(4):995-1002, 1993
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	C46	Miyazono et al., "Retention of the Transforming Growth Factor- $\beta$ 1 Precursor in the Golgi Complex in a Latent Endoglycosidase H-sensitive Form," <i>The Journal of Biological Chemistry</i> , 267(8):5668-5675, 1992
	C47	Pereira et al., "Genomic organization of the sequence coding for fibrillin, the defective gene product in Marfan syndrome," <i>Human Molecular Genetics</i> , 2(7):961-968, 1993
	C48	Seitz et al., "Effect of Transforming Growth Factor $\beta$ on Parathyroid Hormone Receptor Binding and cAMP Formation in Rat Osteosarcoma Cells", <i>Journal of Bone and Mineral Research</i> , 7:541-546, 1992
	C49	Selander-Sunnerhagen et al., "How an Epidermal Growth Factor (EGF)-like Domain Binds Calcium," <i>The Journal of Biological Chemistry</i> , 267(27):19642-19649, 1992
AR	C50	Steiner et al., "The New Enzymology of Precursor Processing Endoproteases," <i>The Journal of Biological Chemistry</i> , 267(33):23435-23438, 1992

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Daniel Roman

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Information Disclosure Statement--PTO-1449 (Modified)

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ATTY. DOCKET NO.  
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08/479,722List of Patents and Publications  
For Applicant's Information  
Disclosure StatementAPPLICANT  
Jeffrey Bonadio and Wushan Yin

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FILING DATE  
June 7, 1995GROUP  
Unknown

## U.S. PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
PR	A25	5,229,495	07/20/93	Ichijo et al.			
	A26	5,280,109	01/18/94	Miyazono et al.			
PR	A27	5,346,993	09/13/94	Miyazono et al.			

## FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

## OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, &amp; Date)

PR	C51	Stratford-Perricaudet et al., "Widespread Long-term Gene Transfer to Mouse Skeletal Muscles and Heart," <i>J. Clin. Invest.</i> , 90:626-630, 1992					
	C52	Benezra et al., "Thrombin-Induced Release of Active Basic Fibroblast Growth Factor-Heparan Sulfate Complexes from Subendothelial Extracellular Matrix," <i>Blood</i> , 81(12):3324-3331, June, 1993.					
	C53	Colosetti et al., "Ca <sup>2+</sup> binding of latent transforming growth factor- $\beta$ 1 binding protein," <i>FEBS</i> , 320(2):140-144, April, 1993.					
	C54	Falcone et al., "Macrophage and Foam Cell Release of Matrix-bound Growth Factors," <i>The Journal of Biological Chemistry</i> , 268(16):11951-11958, June, 1993.					
	C55	Flaumenhaft et al., "Role of the Latent TGF- $\beta$ Binding Protein in the Activation of Latent TGF- $\beta$ by Co-Cultures of Endothelial and Smooth Muscle Cells," <i>The Journal of Cell Biology</i> , 120(4):995-1002, February, 1993.					
	C56	Kanzaki et al., "TGF- $\beta$ 1 Binding Protein: A Component of the Large Latent Complex of TGF- $\beta$ 1 with Multiple Repeat Sequences," <i>Cell</i> , 61:1051-1061, June, 1990.					
PR	C57	Miyazono et al., "Latent High Molecular Weight Complex of Transforming Growth Factor $\beta$ 1," <i>The Journal of Biological Chemistry</i> , 263(13):6407-6415, May, 1988.					

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## OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, &amp; Date)

PR	C58	Miyazono et al., "A role of the latent TGF- $\beta$ 1-binding protein in the assembly and secretion of TGF- $\beta$ 1," <i>The EMBO Journal</i> , 10(5):1091-1101, 1991.
	C59	Miyazono et al., "Retention of the Transforming Growth Factor- $\beta$ 1 Precursor in the Golgi Complex in a Latent Endoglycosidase H-sensitive Form," <i>The Journal of Biological Chemistry</i> , 267(8):5668-5675, March, 1992.
	C60	Morén et al., "Identification and Characterization of LTBP-2, a Novel Latent Transforming Growth Factor- $\beta$ -binding Protein," <i>The Journal of Biological Chemistry</i> , 269(51):32469-32478, December, 1994.
	C61	Olofsson et al., "Transforming Growth Factor- $\beta$ 1, - $\beta$ 2, and - $\beta$ 3 Secreted by a Human Glioblastoma Cell Line," <i>The Journal of Biological Chemistry</i> , 267(27):19482-19488, September, 1992.
	C62	Taketazu et al., "Enhanced Expression of Transforming Growth Factor- $\beta$ s and Transforming Growth Factor- $\beta$ Type II Receptor in the Synovial Tissues of Patients with Rheumatoid Arthritis," <i>Laboratory Investigation</i> , 70(5):620-630, 1994.
	C63	Taipale et al., "Latent Transforming Growth Factor- $\beta$ 1 Associates to Fibroblast Extracellular Matrix via Latent TGF- $\beta$ Binding Protein," <i>The Journal of Cell Biology</i> , 124(1 & 2):171-181, January, 1994.
PR	C64	Tsuji et al., "Molecular cloning of the large subunit of transforming growth factor type $\beta$ masking protein and expression of the mRNA in various rat tissues," <i>Proc. Natl. Acad. Sci. USA</i> , 87:8835-8839, November, 1990.

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**OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, & Date)**

PA	C65	Wakefield et al., "Latent Transforming Growth Factor- $\beta$ from Human Platelets," <i>The Journal of Biological Chemistry</i> , 263(16):7646-7654, June, 1988.
AR	C66	Yin et al., "Isolation of a Novel Latent Transforming Growth Factor- $\beta$ Binding Protein Gene (LTBP-3)," <i>The Journal of Biological Chemistry</i> , 270(17):10147-10160, April, 1995.

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EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE

**FOREIGN PATENT DOCUMENTS**

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
PR	B2	DE 42 19 626 A1	Dec. 23, 1993	Germany	—	—	
	B3	WO 92/05199	April 2, 1992	PCT	—	—	
	B4	WO 93/05751	April 1, 1993	PCT	—	—	
PR	B5	WO 94/01139	Jan. 20, 1994	PCT	—	—	

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PR	C67	Rosen and Thies, "The BMP proteins in bone formation and repair," Trends in Genetics, 8(3):97-102, March, 1992.
<del>PR</del>	<del>C68</del>	<del>International Search Report dated September 15, 1995</del>

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*James Roman*

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## U.S. PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
PR	A28	5,317,010	05/31/94	Pang <i>et al.</i>	514	12	
	A29	5,208,041	05/04/93	Sindrey	424	562	
	A30	5,171,670	12/15/92	Kronenberg <i>et al.</i>	435	68.1	
	A31	5,164,368	11/17/92	Recker	514	12	
	A32	4,833,125	05/23/89	Neer <i>et al.</i>	514	12	
PR	A33	4,806,523	02/21/89	Bentz <i>et al.</i>	514	2	

## FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
PR	B2	DE 42 19 626 A1	12/23/93	Germany	—	—	
	B6	WO 94/20615	09/15/94	PCT	—	—	
PR	B7	WO 93/15109	08/05/93	PCT	—	—	

## OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, &amp; Date)

PR	C69	Badylak <i>et al.</i> , "Directed Connective Tissue Remodeling Upon a Biologic Collagen Substrate," <i>J. Cell Biochem. Supplement 16F</i> , p. 124, April 3-16, 1992.
	C70	Benevisty and Reshef, "Direct introduction of genes into rats and expression of the genes," <i>Proc. Natl. Acad. Sci. USA</i> , 83:9551-9555, December 1986.
	C71	Bonadio and Goldstein, "Direct Gene Transfer into Skeletal Tissues <i>In Vivo</i> ," <u>Gene Therapy Meeting: Cold Spring Harbor</u> , Conference Abstract, September 21-25, 1994.
	C72	Edelman <i>et al.</i> , "c-myc in Vasculoproliferative Disease," <i>Circulation Research</i> , 76(2):1.2-1.8, February, 1995.
PR	C73	Evans and Robbins, "Possible Orthopaedic Applications of Gene Therapy," <i>The Journal of Bone and Joint Surgery</i> , 77-A(7):1103-1114, July, 1995.

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## U.S. PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
PR	A34	5,366,875	11/22/94	Wozney <i>et al.</i>	435	69.1	
	A35	5,354,557	10/11/94	Oppermann <i>et al.</i>	424	423	
	A36	5,344,654	09/06/94	Rueger <i>et al.</i>	424	423	
	A37	5,324,819	06/28/94	Oppermann <i>et al.</i>	530	350	
	A38	5,266,683	11/30/93	Oppermann <i>et al.</i>	530	326	
	A39	5,258,494	11/02/93	Oppermann <i>et al.</i>	530	326	
PR	A40	5,250,302	10/05/93	Oppermann <i>et al.</i>	424	422	

## FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
PR	B8	0 614 974 A2	09/14/94	Europe			
	B9	WO 93/09229	05/13/93	PCT			
PR	B10	WO 90/03733	04/19/90	PCT			

## OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, &amp; Date)

PR	C74	Indolfi <i>et al.</i> , "Inhibition of cellular <i>ras</i> prevents smooth muscle cell proliferation after vascular injury <i>in vivo</i> ," <i>Nature Medicine</i> , 1(6):541-545, June, 1995.
	C75	Invention Disclosure entitled "Small Intestinal Submucosa as Biomaterial to Promote Gene Transfer," Stephen G. Badylak, Jeffrey Bonadio and Sherry L. Voytik, September 4, 1992.
	C76	Kaneda <i>et al.</i> , "Increased Expression of DNA Cointroduced with Nuclear Protein in Adult Rat Liver," <i>Science</i> , 243:375-378, January, 1989.
	C77	Mannino and Gould-Fogerite, "Liposome Mediated Gene Transfer," <i>BioTechniques</i> , 6(7):682-690, 1988.
PR	C78	Mumper <i>et al.</i> , "Interactive Polymeric Gene Delivery Systems for Enhanced Muscle Expression," <i>Abstract</i> , American Assoc. of Pharmaceutical Science, Miami Beach, FL, November 6-9, 1995.

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EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
PR	A41	5,182,365	01/26/93	Kuberasampath <i>et al.</i>			
	A42	5,141,905	08/25/92	Rosen <i>et al.</i>	435	69.1	
	A43	5,106,626	04/21/92	Parsons <i>et al.</i>	424	423	
	A44	5,328,955	07/12/94	Rhee <i>et al.</i>	525	54.1	
	A45	5,326,357	07/05/94	Kandel	623	16	
	A46	5,326,350	07/05/94	Li	623	11	
PR	A47	5,308,889	05/03/94	Rhee <i>et al.</i>	523	113	

## FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
PR	B11	WO 93/16739	09/02/93	PCT	—	—	
	B12	WO 93/14778	08/05/93	PCT	—	—	
PR	B13	WO 92/07573	05/14/92	PCT	—	—	

## OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, &amp; Date)

PR	C79	Nicolau <i>et al.</i> , "In vivo expression of rat insulin after intravenous administration of the liposome-entrapped gene for rat insulin I," <i>Proc. Natl. Acad. Sci. USA</i> , 80:1068-1072, February, 1983.
	C80	Simons <i>et al.</i> , "Antisense c-myc oligonucleotides inhibit intimal arterial smooth muscle cell accumulation in vivo," <i>Nature</i> , 359:67-70, September, 1992.
	C81	Sumner <i>et al.</i> , "Enhancement of Bone Ingrowth by Transforming Growth Factor- $\beta$ ," <i>The Journal of Bone and Joint Surgery</i> , 77-A(8):1135-1147, August, 1995.
	C82	Wolff <i>et al.</i> , "Conditions Affecting Direct Gene Transfer into Rodent Muscle In Vivo," <i>BioTechniques</i> , 11(4): 474-485, 1991.
PR	C83	Wolff <i>et al.</i> , "Expression of naked plasmids by cultured myotubes and entry of plasmids into T tubules and caveolae of mammalian skeletal muscle," <i>Journal of Cell Science</i> , 103:1249-1259, 1992.

EXAMINER

David Rocco

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## U.S. PATENT DOCUMENTS

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AR	A48	5,292,802	03/08/94	Rhee <i>et al.</i>	525	54.1	
	A49	5,273,964	12/28/93	Lemons	514	2	
	A50	5,206,028	04/27/93	Li	424	484	
	A51	5,197,977	03/30/93	Hoffman, Jr. <i>et al.</i>	623	1	
AR	A52	5,196,185	03/23/93	Silver <i>et al.</i>	424	45	

## FOREIGN PATENT DOCUMENTS

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AR	B14	WO 91/17424	11/14/91	PCT	—	—	
AR	B15	WO 90/14074	11/29/90	PCT	—	—	

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AR	C84	Wu and Wu, "Receptor-mediated Gene Delivery and Expression <i>in Vivo</i> ," <i>The Journal of Biological Chemistry</i> , 263(29):14621-14624, 1988.
	C85	Yin <i>et al.</i> , "Molecular Cloning of a Novel Fibrillin-Like cDNA: Expression in Callus Tissue as Alternatively Spliced Transcripts," <i>40th Annual Meeting, Orthopaedic Research Society</i> , Conference Abstract, February 21-24, 1994.
	C86	Zhu <i>et al.</i> , "Direct Gene Transfer into Regenerating Achilles' Tendon," <i>40th Annual Meeting, Orthopaedic Research Society</i> , Conference Abstract, February 21-24, 1994.
	C87	U.S. Patent Application Serial No. 08/176,565; filed 01/03/94; entitled "Fluidized Intestinal Submucosa and its Use as an Injectable Tissue Graft".
	C88	U.S. Patent Application Serial No. 08/343,204; filed 11/22/94; entitled "Fluidized Intestinal Submucosa and its Use as an Injectable Tissue Graft".
AR	C89	U.S. Patent Application Serial No. 08/390,700; filed 02/17/95; entitled "Compositions and Method for Production of Transformed Cells".

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AR	A53	5,171,574	12/15/92	Kuberasampath <i>et al.</i>	424	423	
	A54	5,162,430	11/10/92	Rhee <i>et al.</i>	525	54.1	
	A55	5,162,114	11/10/92	Kuberasampath <i>et al.</i>	424	423	
	A56	5,128,136	07/07/92	Bentley <i>et al.</i>	424	443	
	A57	5,124,155	06/23/92	Reich	424	428	
	A58	5,037,749	08/06/91	Findlay	435	176	
	A59	5,120,322	06/09/92	Davis <i>et al.</i>	604	265	
	A60	5,110,604	05/05/92	Chu <i>et al.</i>	424	484	
	A61	5,103,840	04/14/92	Kavoussi	128	899	
	A62	5,081,106	01/14/92	Bentley <i>et al.</i>	514	5	
	A63	5,059,123	10/22/91	Jernberg	433	215	
	A64	5,035,893	07/30/91	Shioya <i>et al.</i>	424	447	
	A65	5,001,169	03/19/91	Nathan <i>et al.</i>	523	113	
AR	A66	4,957,902	09/18/90	Grinnell	514	17	

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AR	C90	U.S. Patent Application Serial No. 08/386,432; filed 02/10/95; entitled "Bone Graft Composition".
AR	C91	U.S. Patent Application Serial No. 08/386,452; filed 02/10/95; entitled "Submucosa as a Growth Substrate for Cells."

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Daniel Romeo

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PR	A67	4,946,450	08/07/90	Erwin	604	294	
	A68	4,882,150	11/21/89	Kaufman	424	428	
	A69	4,865,846	09/12/89	Kaufman	424	428	
	A70	4,837,285	06/06/89	Berg <i>et al.</i>	530	356	
	A71	4,798,786	01/17/89	Tice <i>et al.</i>	435	177	
	A72	4,789,663	12/06/88	Wallace <i>et al.</i>	514	21	
	A73	4,776,890	10/11/88	Chu	106	161	
	A74	4,711,783	12/08/87	Huc <i>et al.</i>	424	460	
	A75	4,703,108	10/27/87	Silver <i>et al.</i>	530	356	
	A76	4,591,501	05/27/86	Cioca	424	28	
	A77	4,585,797	04/29/86	Cioca	514	773	
	A78	4,563,350	01/07/86	Nathan <i>et al.</i>	424	95	
	A79	4,538,603	09/03/85	Pawelchak <i>et al.</i>	128	156	
	A80	4,472,840	09/25/84	Jefferies	3	1.9	
PR	A81	4,409,332	10/11/83	Jefferies <i>et al.</i>	435	188	

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## OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, &amp; Date)

PR	C92	Zhang <i>et al.</i> , "Structure and Expression of Filbrillin-2, A Novel Microfibrillar Component Preferentially Located in Elastic Matrices", <i>The Journal of Cell Biology</i> , 124:855-863, 1994					
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## U.S. PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
AR	A82	4,390,519	06/28/83	Sawyer	424	28	
	A83	4,347,234	08/31/82	Wahlig <i>et al.</i>	424	15	
	A84	5,366,734	11/22/94	Hutchinson	424	426	
	A85	5,366,733	11/22/94	Brizzolara <i>et al.</i>	424	426	
	A86	5,366,508	11/22/94	Brekke	623	16	
	A87	5,360,610	11/01/94	Tice <i>et al.</i>	424	426	
	A88	5,350,580	09/27/94	Muchow <i>et al.</i>	424	437	
	A89	5,324,520	06/28/94	Dunn <i>et al.</i>	424	435	
	A90	5,324,519	06/28/94	Dunn <i>et al.</i>	424	426	
	A91	5,324,307	06/28/94	Jarrett <i>et al.</i>	606	219	
	A92	5,320,624	06/14/94	Kaplan <i>et al.</i>	606	77	
	A93	5,308,623	05/03/94	Fues <i>et al.</i>	424	426	
	A94	5,288,496	02/22/94	Lewis	424	426	
	A95	5,281,419	01/25/94	Tuan <i>et al.</i>	424	426	
AR	A96	5,278,202	01/11/94	Dunn <i>et al.</i>	523	113	

## FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, &amp; Date)

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EXAMINER

James R. Rennie

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8/11/92

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## U.S. PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
AR	A97	5,278,201	01/11/94	Dunn <i>et al.</i>	523	113	
	A98	5,271,961	12/21/93	Mathiowitz <i>et al.</i>	427	213.31	
	A99	5,268,178	12/07/93	Calhoun <i>et al.</i>	424	426	
	A100	5,250,584	10/05/93	Ikada <i>et al.</i>	523	114	
	A101	5,227,157	07/13/93	McGinity <i>et al.</i>	424	78.02	
	A102	5,192,741	03/09/93	Orsolini <i>et al.</i>	514	4	
	A103	5,185,152	02/09/93	Peyman	424	427	
	A104	5,171,217	12/15/92	March <i>et al.</i>	604	53	
	A105	5,143,730	09/01/92	Fues <i>et al.</i>	424	426	
	A106	5,133,755	07/28/92	Brekke	623	16	
	A107	5,108,755	04/28/92	Daniels <i>et al.</i>	424	426	
	A108	5,084,051	01/28/92	Törmälä <i>et al.</i> 70[45]	606	77	
	A109	5,080,665	01/14/92	Jarrett <i>et al.</i>	606	219	
	A110	5,077,049	12/31/91	Dunn <i>et al.</i>	424	426	
AR	A111	5,051,272	09/24/91	Hermes <i>et al.</i>	427	2	

## FOREIGN PATENT DOCUMENTS

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EXAMINER	David Rowe	DATE CONSIDERED	8/11/2
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## U.S. PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
AR	A112	5,011,692	04/30/91	Fujioka <i>et al.</i>	424	426	
	A113	5,007,939	04/16/91	Delcommune <i>et al.</i>	623	66	
	A114	5,004,602	04/02/91	Hutchinson	424	78	
	A115	4,961,707	10/09/90	Magnusson <i>et al.</i>	433	215	
	A116	4,938,763	07/03/90	Dunn <i>et al.</i>	604	891.1	
	A117	4,916,193	04/10/90	Tang <i>et al.</i>	525	413	
	A118	4,898,734	02/06/90	Mathiowitz <i>et al.</i>	424	426	
	A119	4,898,186	02/06/90	Ikada <i>et al.</i>	606	62	
	A120	4,889,119	12/26/89	Jamiolkowski <i>et al.</i>	606	220	
	A121	4,844,854	07/04/89	Kaplan <i>et al.</i>	264	235	
	A122	4,839,130	06/13/89	Kaplan <i>et al.</i>	264	235	
	A123	4,818,542	04/04/89	DeLuca <i>et al.</i>	424	491	
	A124	4,744,365	05/17/88	Kaplan <i>et al.</i>	128	335.5	
	A125	4,741,337	05/03/88	Smith <i>et al.</i>	128	334 R	
AR	A126	4,623,588	11/18/86	Nuwayser <i>et al.</i>	428	402.24	

## FOREIGN PATENT DOCUMENTS

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EXAMINER	James R. Jones	DATE CONSIDERED	5/11/92
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## U.S. PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
AR	A127	4,578,384	03/25/86	Hollinger	514	8	
	A128	4,568,559	02/04/86	Nuwayser <i>et al.</i>	427	3	
	A129	4,539,981	09/10/85	Tunc	128	92 B	
	A130	4,530,449	11/05/85	Tunc	623	16	
	A131	4,384,975	05/24/83	Fong	427	213.36	
	A132	4,300,565	11/17/81	Rosensaft <i>et al.</i>	128	335.5	
	A133	4,279,249	07/21/81	Vert <i>et al.</i>	128	92 D	
	A134	4,243,775	01/06/81	Rosensaft <i>et al.</i>	525	415	
	A135	4,181,983	01/08/80	Kulkarni	3	1	
	A136	4,166,800	09/04/79	Fong	252	316	
	A137	4,137,921	02/06/79	Okuzumi <i>et al.</i>	128	335.5	
	A138	5,445,833	08/29/95	Badylak <i>et al.</i>	424	551	
	A139	5,372,821	12/13/94	Badylak <i>et al.</i>	424	551	
	A140	5,352,463	10/04/94	Badylak <i>et al.</i>	424	551	
AR	A141	5,281,422	01/25/94	Badylak <i>et al.</i>	424	551	

## FOREIGN PATENT DOCUMENTS

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EXAMINER

Daniel Roman

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1804**U.S. PATENT DOCUMENTS**

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
AR	A142	5,275,826	01/04/94	Badylak <i>et al.</i>	424	551	
	A143	4,956,178	09/11/90	Badylak <i>et al.</i>	424	551	
	A144	4,902,508	02/20/90	Badylak <i>et al.</i>	424	95	
	A145	5,306,303	04/26/94	Lynch	623	16	
	A146	5,263,985	11/23/93	Bao <i>et al.</i>	623	16	
	A147	4,988,358	01/29/91	Eppley <i>et al.</i>	623	16	
	A148	5,128,326	07/07/92	Balazs <i>et al.</i>	514	54	
	A149	4,952,402	08/28/90	Sparks <i>et al.</i>	424	419	
	A150	5,137,669	08/11/92	Leonard <i>et al.</i>	264	120	
	A151	5,039,660	08/13/91	Leonard <i>et al.</i>	514	8	
	A152	5,286,634	02/15/94	Stadler <i>et al.</i>	435	172.3	
	A153	5,264,618	11/23/93	Felgner <i>et al.</i>	560	224	
SPR	A154	5,223,263	062993	Hostetler <i>et al.</i>	424	450	

**FOREIGN PATENT DOCUMENTS**

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EXAMINER

*Samuel R. Rowe*

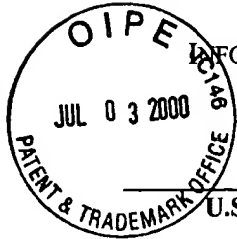
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Information Disclosure Statement--PTO-1449 (Modified)

Form PTO-1449 (modified)		Atty. Docket No. 4100.000582	Serial No. 09/592,685
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Jeffrey Bonadio and Wushan Yin	
		Filing Date: June 12, 2000	Group: 1646
U.S. Patent Documents <i>See Page 1</i>	Foreign Patent Documents <i>See Page</i>	Other Art <i>See Page</i>	



## U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
AR	A155	6,074,840	June 13, 2000	Bonadio <i>et al.</i>	435	69.1	

## Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No

## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

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